SwiftCam X3

User manual

SwiftCam

Warranty Disclaimer

SwiftCam shall not in any way or manner be liable to the buyer under this clause unless the following conditions for the installation, use and/or operation of the SwiftCam product in question are strictly complied with:

- The SwiftCam product is installed and operated in accordance with SwiftCam's instructions and any manual issued by SwiftCam in conjunction with the installation and operation of the SwiftCam product and in accordance with generally accepted industrial practices.
- The SwiftCam product is used under normal conditions for which it is designed.
- The SwiftCam receives due and proper care and maintenance.
- The SwiftCam product is used with an electrical protection system and a charger approved by SwiftCam.
- The SwiftCam product is not subjected to any modification or adaptation which is not authorized by SwiftCam in writing.
- No device, instrument, equipment (either separately or in combination) is installed for use in connection with or as part of the SwiftCam product, the use or combination of which has not been approved or recommended by SwiftCam in writing.

Limitation of Liability

In no event, regardless of cause shall SwftCam be liable for ay indirect, special, incidental, punitive or consequential damages of any kind, whether arising under breach of contract, tort (including negligence), strict liability or otherwise, and whether based on this agreement or otherwise, even if advised of the possibility of such damages.

Care and Maintenance

Place the SwiftCam X3 steadied onto the gimbal stand then starting the maintenance process.

SwfitCam X3 is a delicate instrument, please keep away from sand, dust, or any kind of liquid, the main unit or accessories will be damaged due to improper use or maintenance. Use soft and dry cloth to clean it. DO NOT apply any detergent or solvent while cleaning the main unit or accessories.

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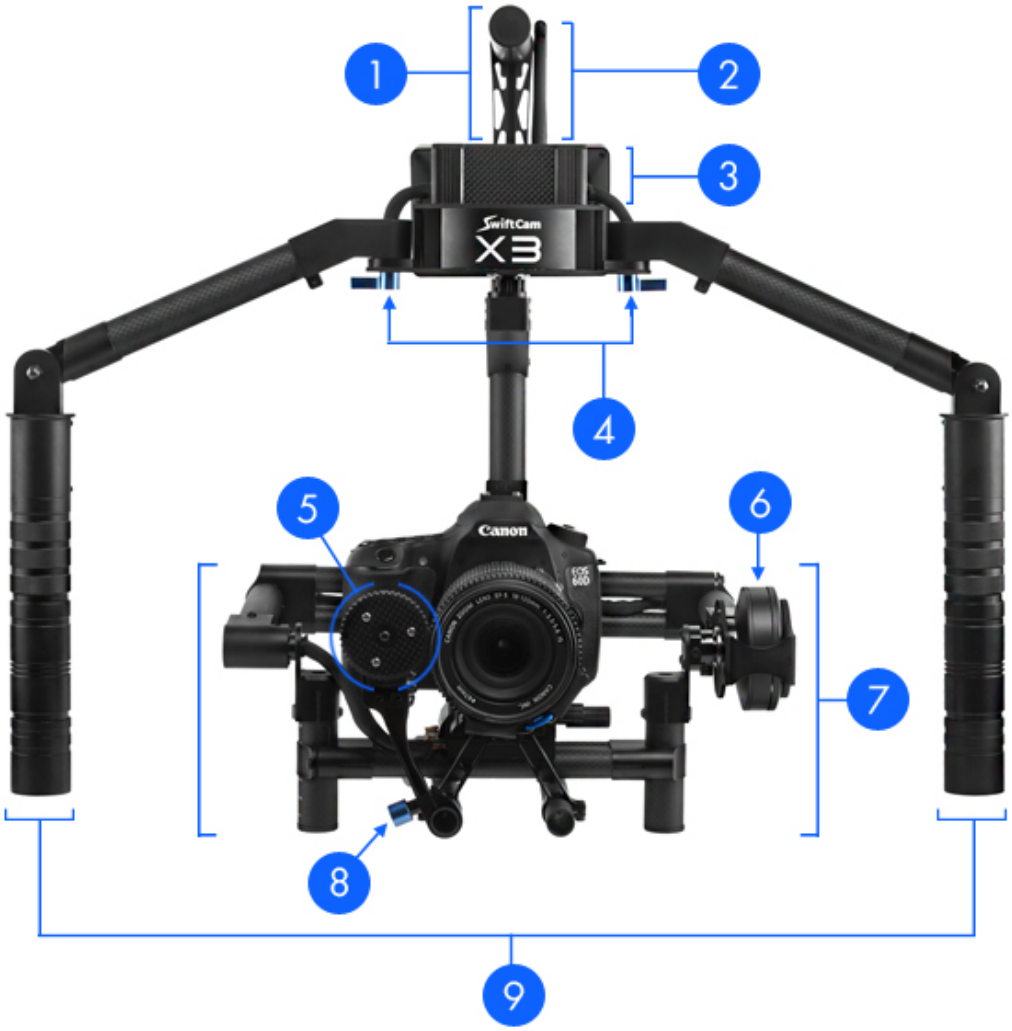
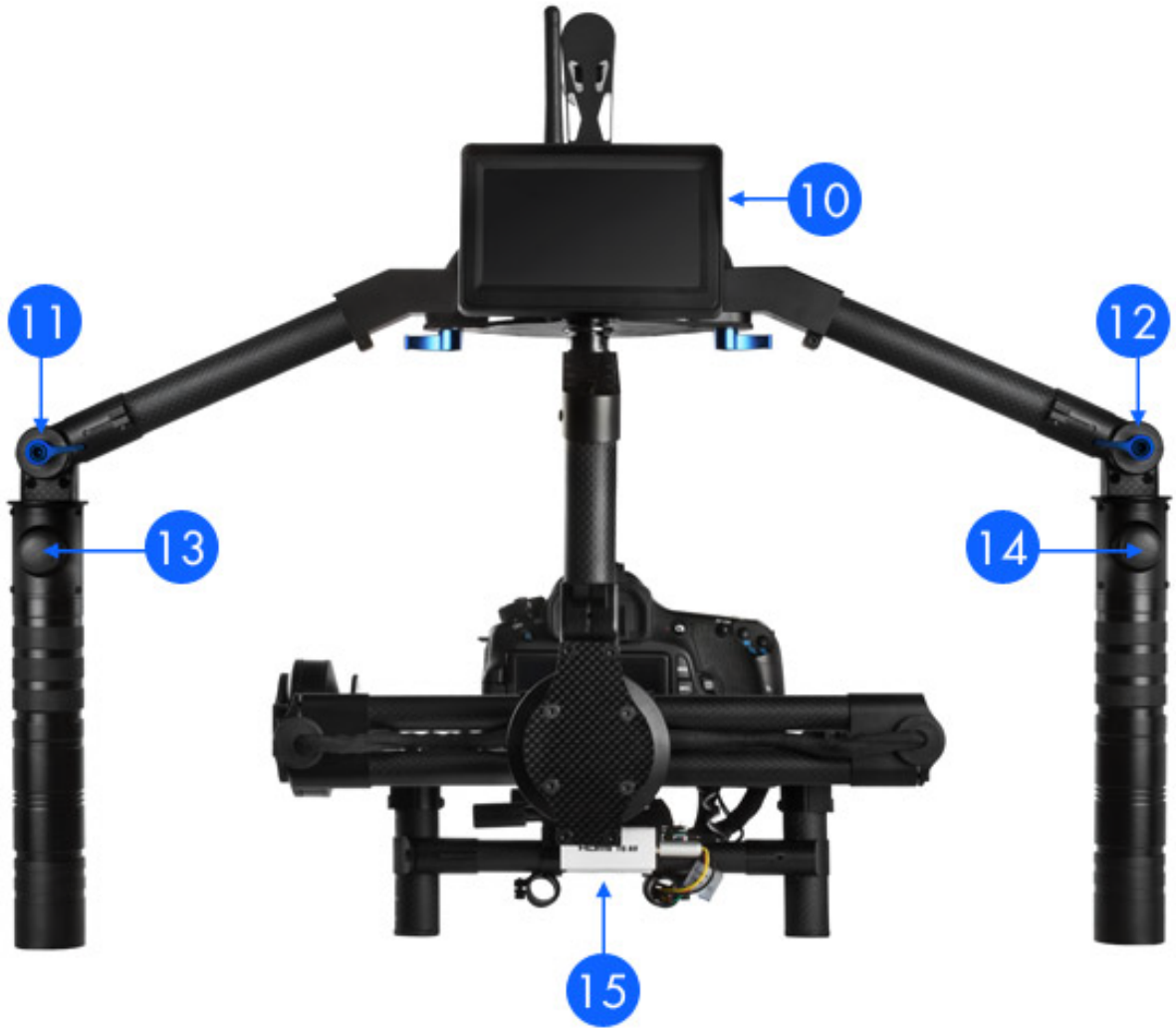
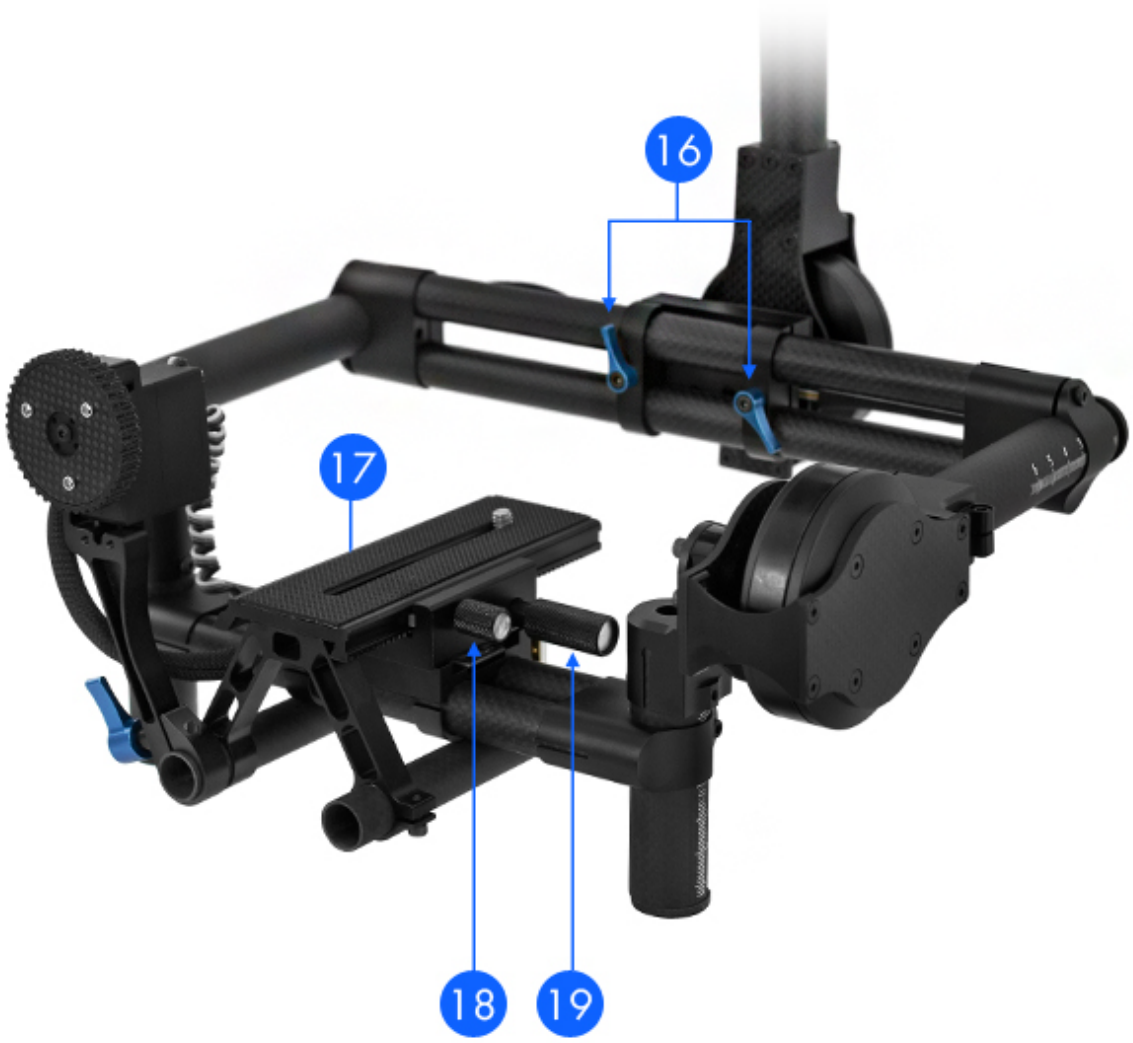
Specifications



1) Central grip
2) Video transmitter antenna
3) Main control box with battery capacity indicator
4) Top folding arm buckle
5) Follow focus servo
6) Pitch Motor
7) Gimbal main unit
8) Quick Release Screw
9) Battery handle



10) 4.3” Onboard screen
11) Folding Arm Buckle (Left)
12) Folding Arm Buckle (Right)
13) Follow focus joystick
14) Gimbal movement joystick
15) HDMI/AV converter

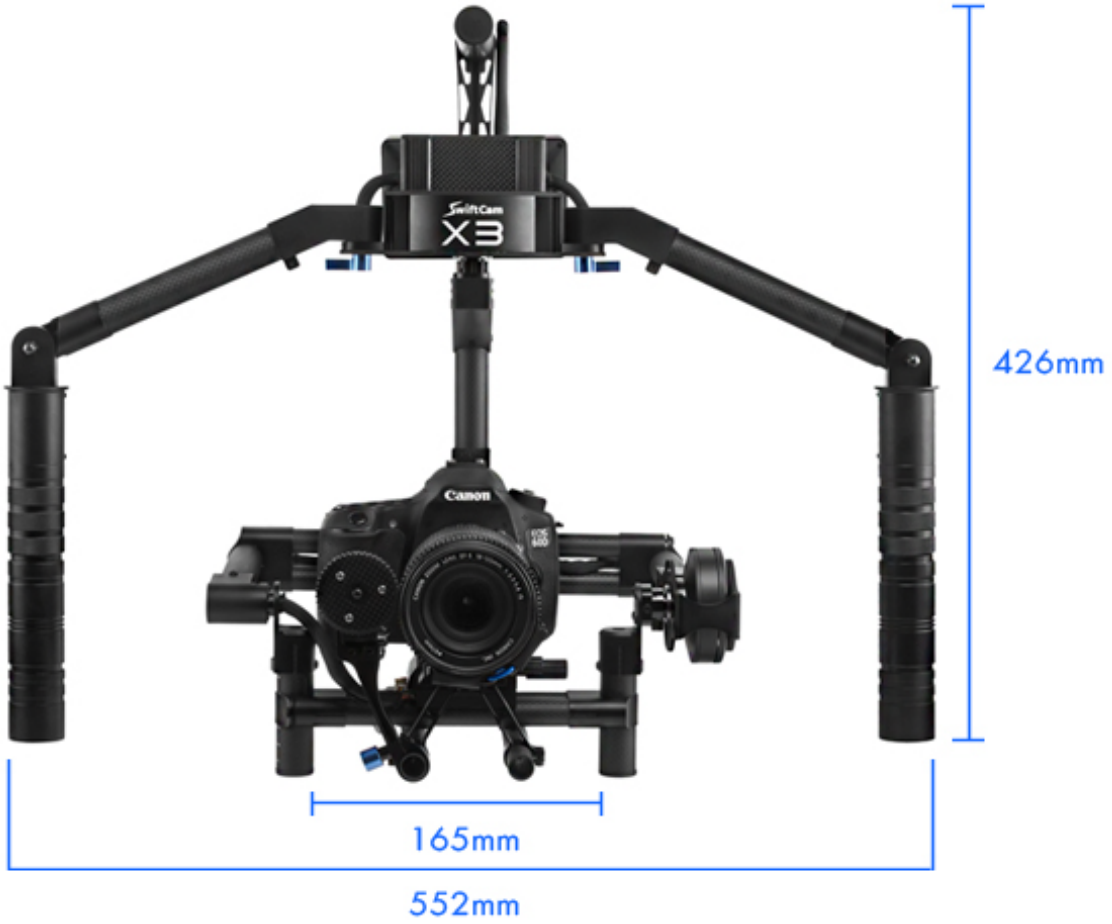


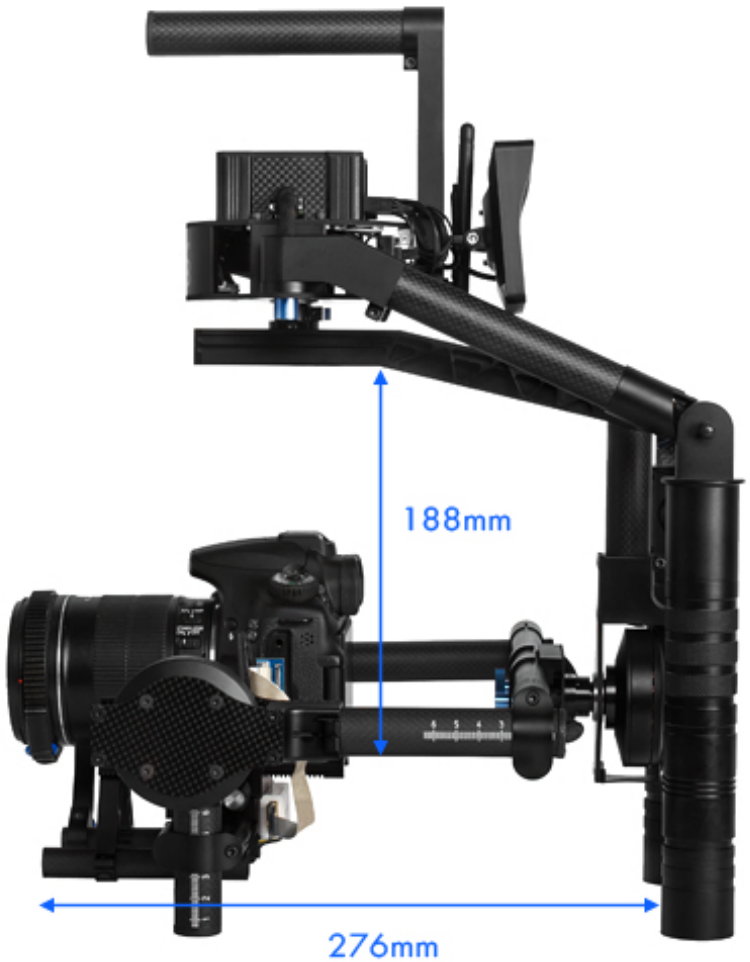
16) Horizontal adjustment knob

17) Adjustable gimbal plate

18) Camera fixing knob

19) Camera position adjustment knob

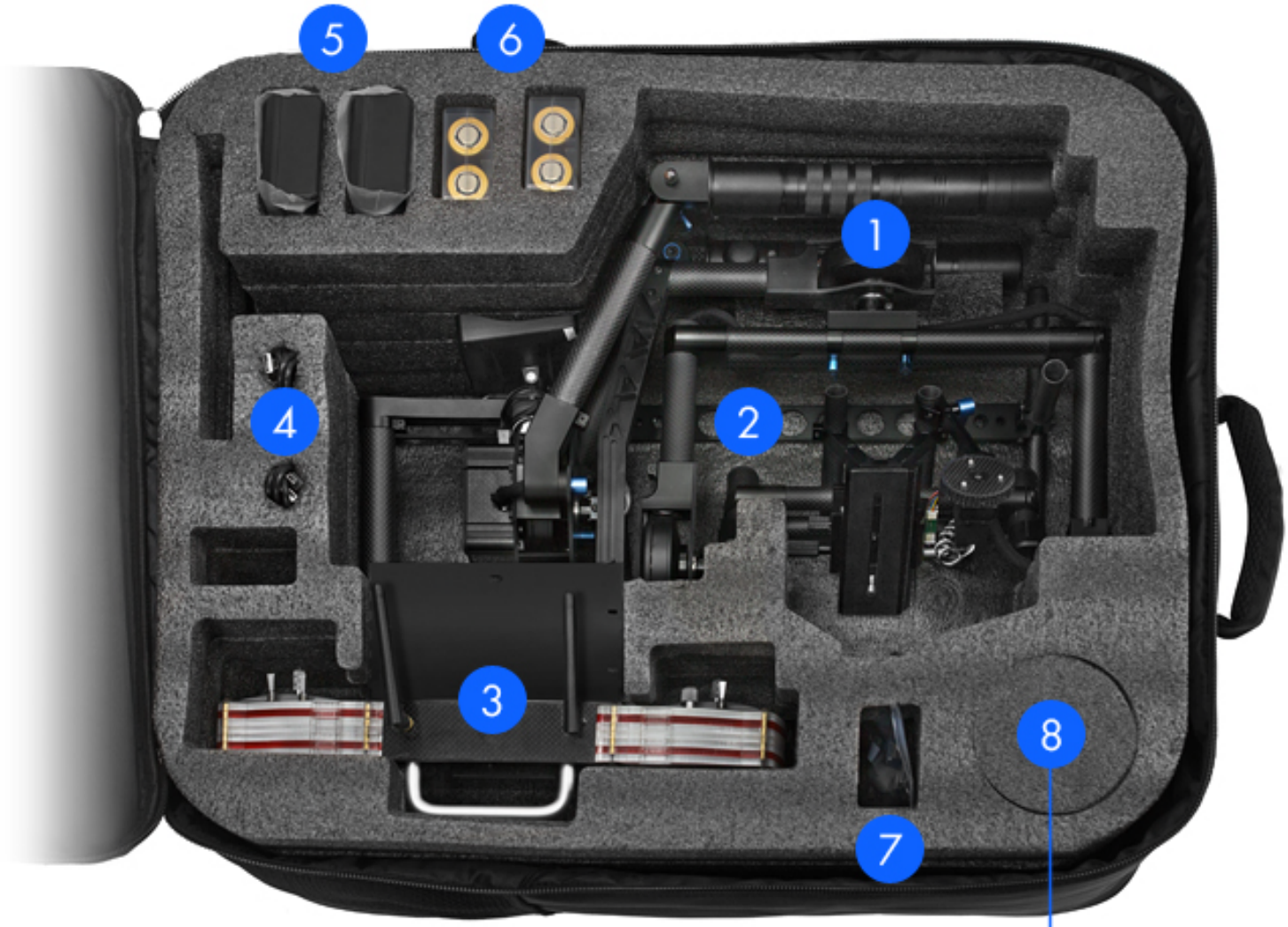

SwiftCam
X3
Canon
426mm
165mm
552mm


188mm
276mm

Specifications

Working Performance	Working Current : < 1.5A Working Voltage : 14.8V 4S Lipo Working Battery Type : 26650 LiIon Battery *4Pcs Operating Temperature : -15°C 50°C (5°F 120°F) Weight : 3.07kg (6.77lbs) fully loaded without Camera Gimbal Dimensions : 553mm (W) x 200-282mm (D) x 439mm (heart) Max. Gimbal Load (Reference Value) : 2Kg Controlled Angle Accuracy : 0.02°
Supported Camera Dimensions	Maximum width : 160mm Maximum depth at center of mass on camera base plate : 120mm Maximum height measured from top of camera base plate : 180mm
Controlled Rotation Speed	Pan axis : Proportional to Joystick Input Tilt axis : Proportional to Joystick Input Roll axis : NULL
Controlled Rotation Range	Pan axis control : ±360° Tilt axis control : ±360° Roll axis control : NULL
Charger Input	Charger Input Voltage : 5V USB Radio 2.4G Transmitter Power : 11.1V Lipo Battery with JST-XH Balance Connector (Optional)

Item Included



Carrying bag

(1)

A complete set of 3-axis handheld brushless gimbal

(2)

Gimbal stand

(4)

USB charging cable (2pcs)

(3)

7CH Transmitter with built-in video receiver and live view screen

(5)

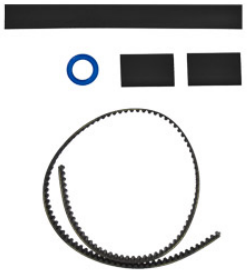
Li-ion charger (2pcs)

(6)

22650 Li-ion battery (4pcs)

(7.1)

Hex key (2mm & 2.5mm)



(7.2)

Hex key (2mm & 2.5mm)

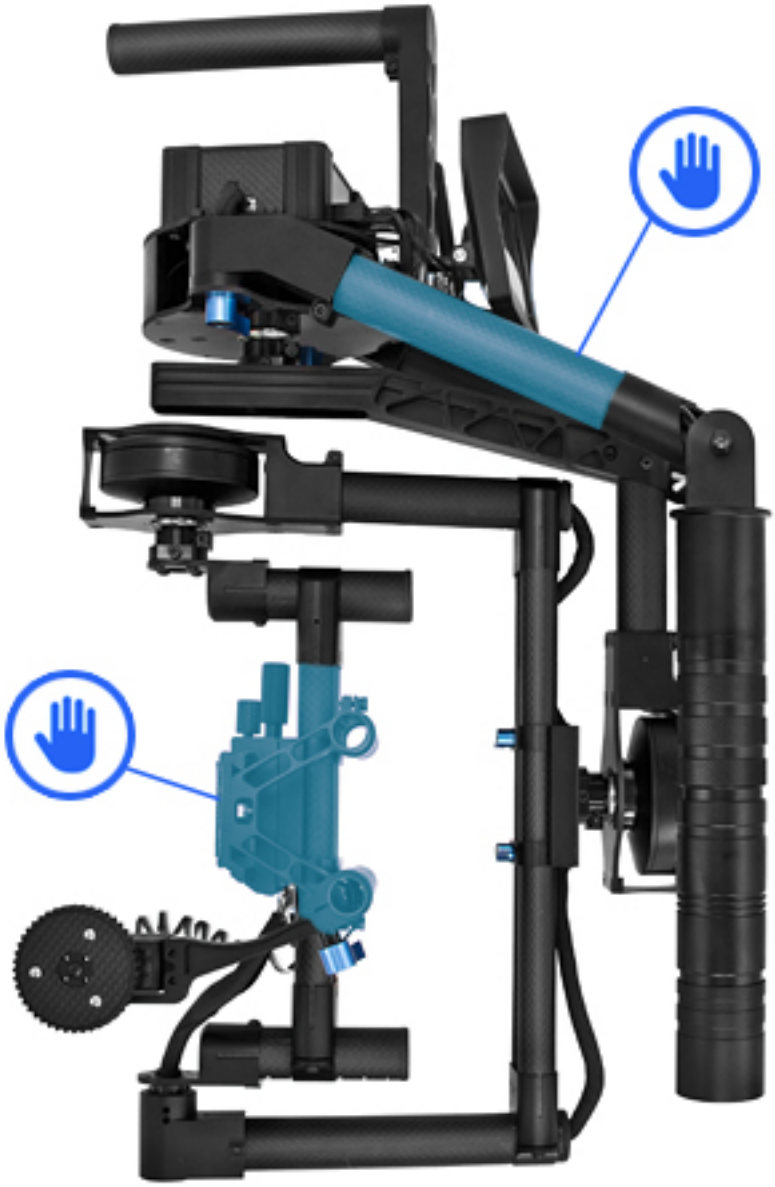
(7.3)

Li-ion charger (2pcs)

X3 Installation Instructions

(1)

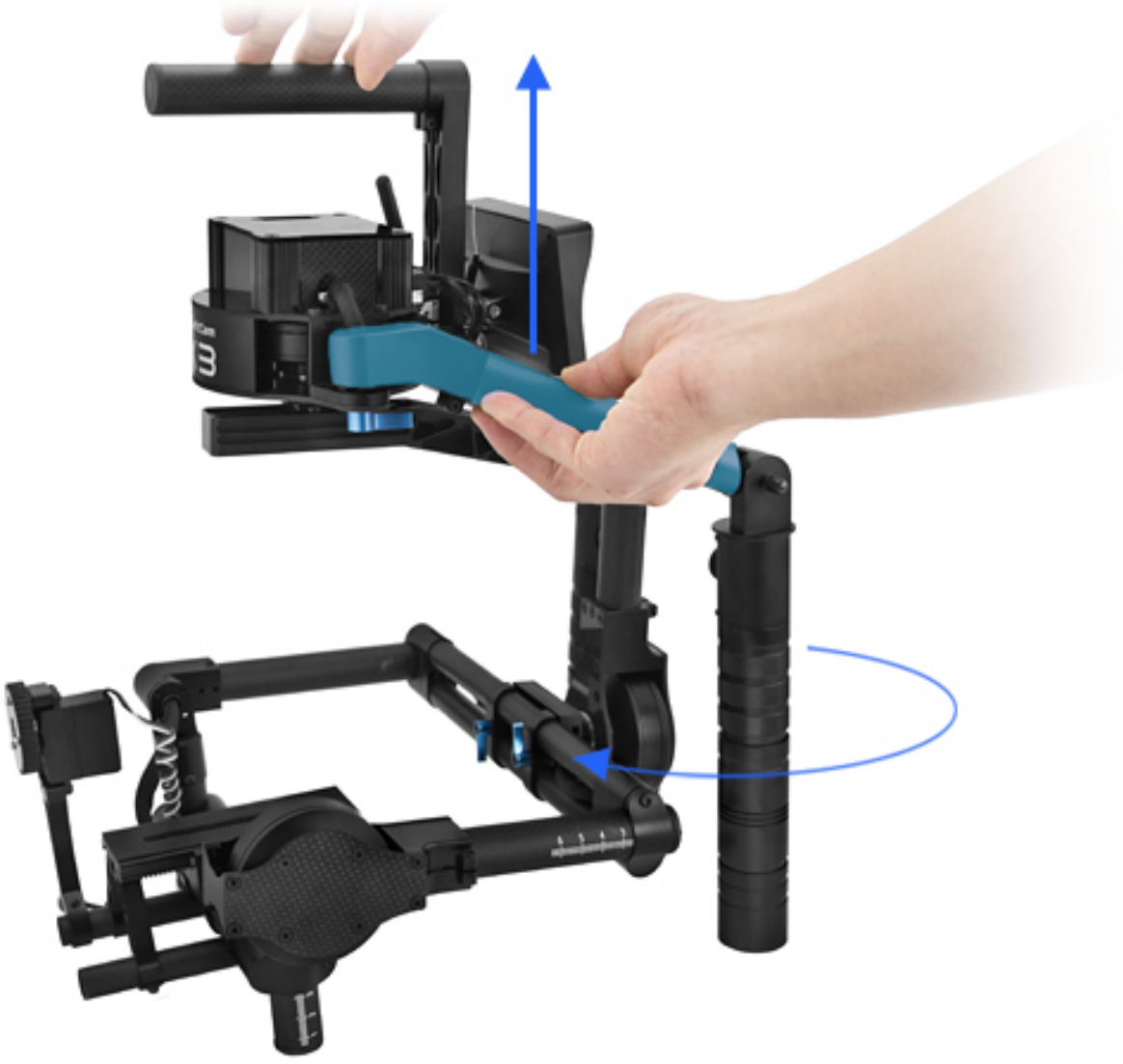
Open the backpack of X3, hold the upper arm and the camera mount with each of your hands as illustrated, and take the X3 set out of the backpack.



(2)

Put the X3 vertically as illustrated, level the camera mount set while the arms are still folded.

Release the folding arm buckle, hold the upper side of the arms and open them fully.



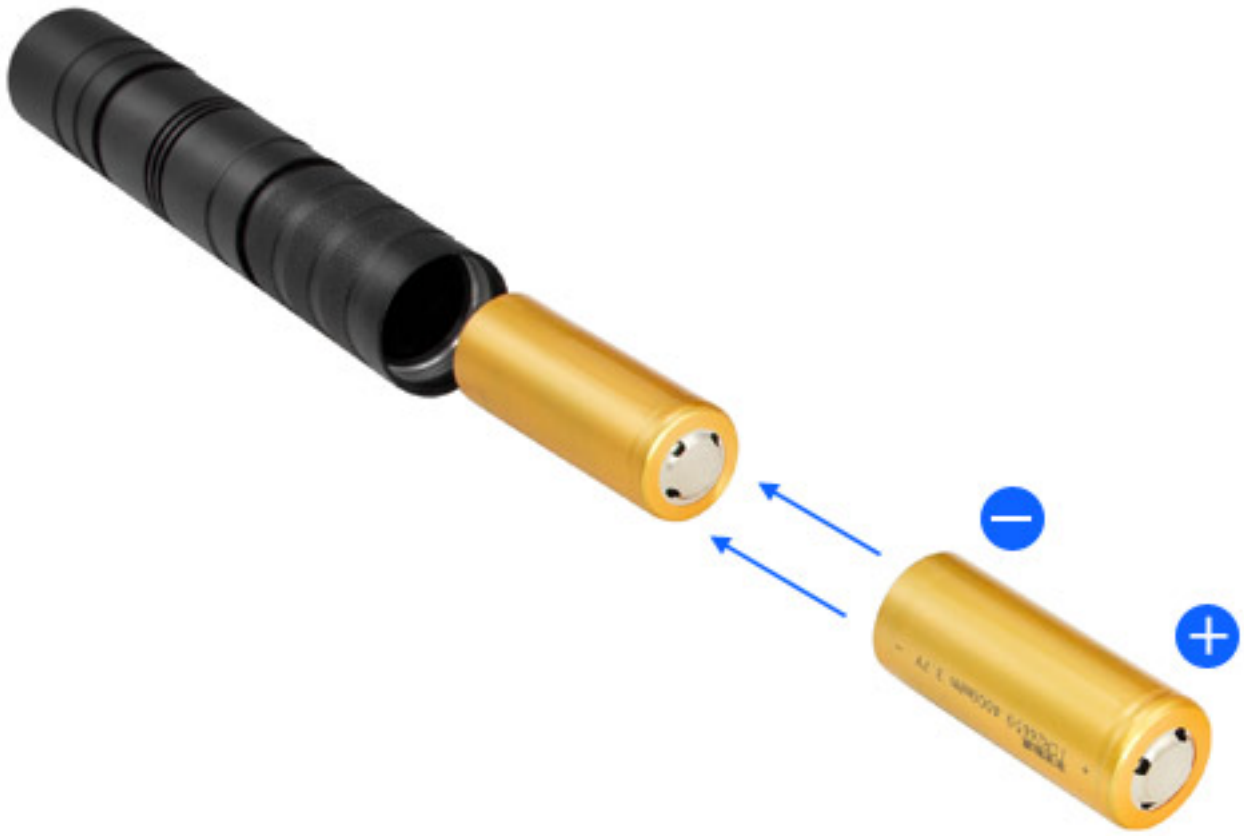
(4)
Then tighten the folding arm buckle again.

*For most of the setting steps, we recommend you to place the gimbal as illustrated (triangle position).

(5)
Put the X3 upside down as illustrated for remove/install the batteries.

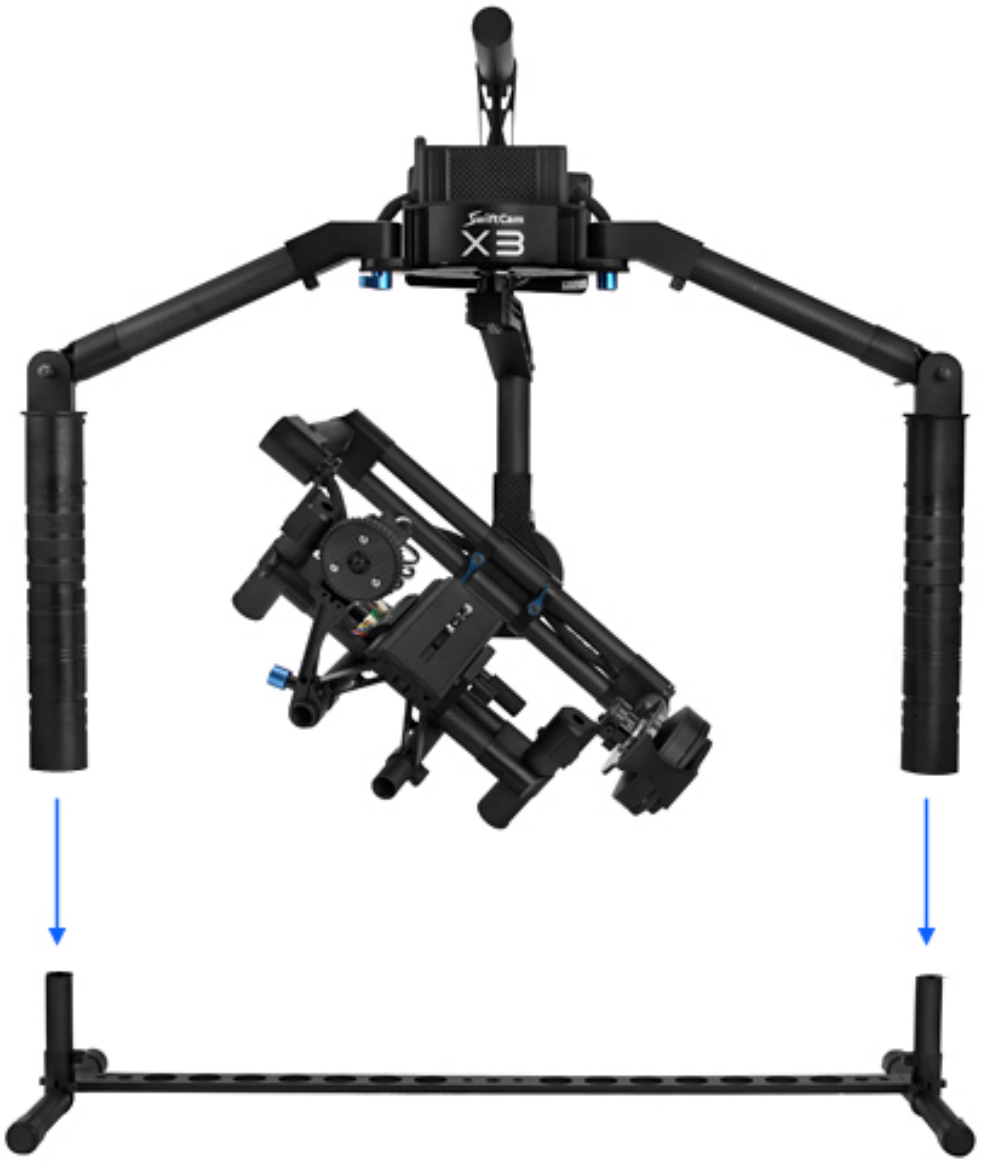
(6)
Turn the arm counter-clockwise to release the battery tray.

(7)
Install the battery as illustrated.
*Note the direction of the positive/negative poles.



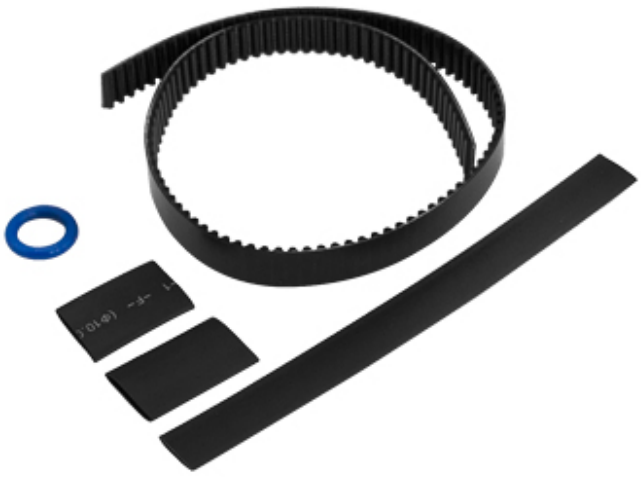
(8)

Tighten the arm clockwise after installing the batteries and place the X3 onto the gimbal mount as illustrated.

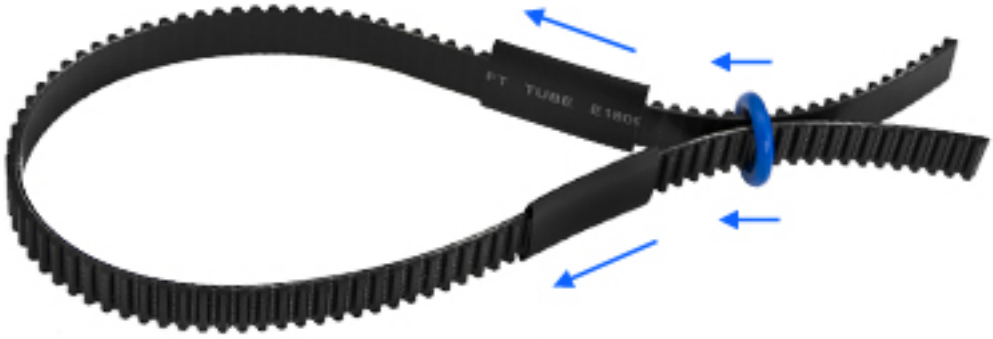


(9)

Take out the follow/focus parts.



(10)
Insert the black rubber sleeves into each side of the belt, then insert both sides of the belt into the blue rubber ring.



(11)
Fold the end of the belt and fix it into the black rubber sleeve as illustrated.

(12)
Fix the belt onto the lens and tighten it.

(13)
Fold the other side of the belt and fix it into the black rubber sleeve as illustrated.

Unscrew the adjustable gimbal plate before mounting the camera onto the X3.

A.
Short adjustment knob – for tighten / loosen the camera

B.
Long adjustment knob – for adjusting camera position

(15)

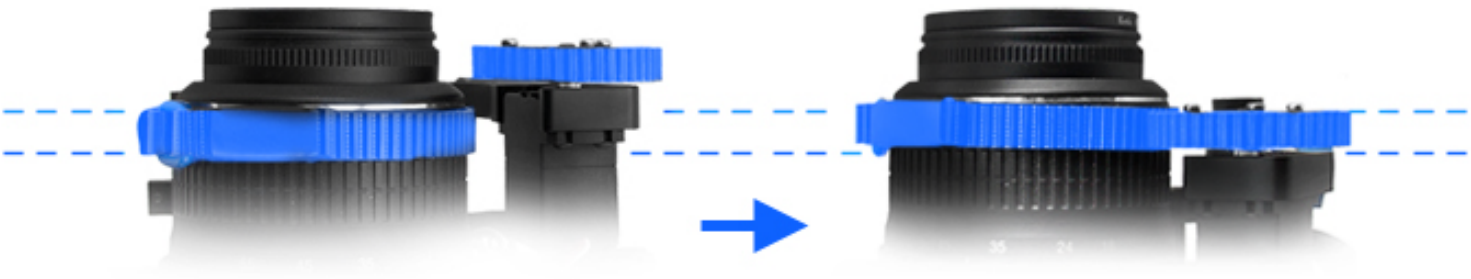
Unscrew the fixing screw, put the camera onto the adjustable gimbal plate, then fixing the tripod socket

(16)

After mounting on the camera, tighten the short adjustment knob and adjusting the position of the camera for balancing the gimbal.

(17)

After balancing the gimbal, move the camera forward and align it with the follow/focus ring.



Adjust the follow/focus ring to closely fit with the belt. (Do not over tighten the follow/focus ring.)

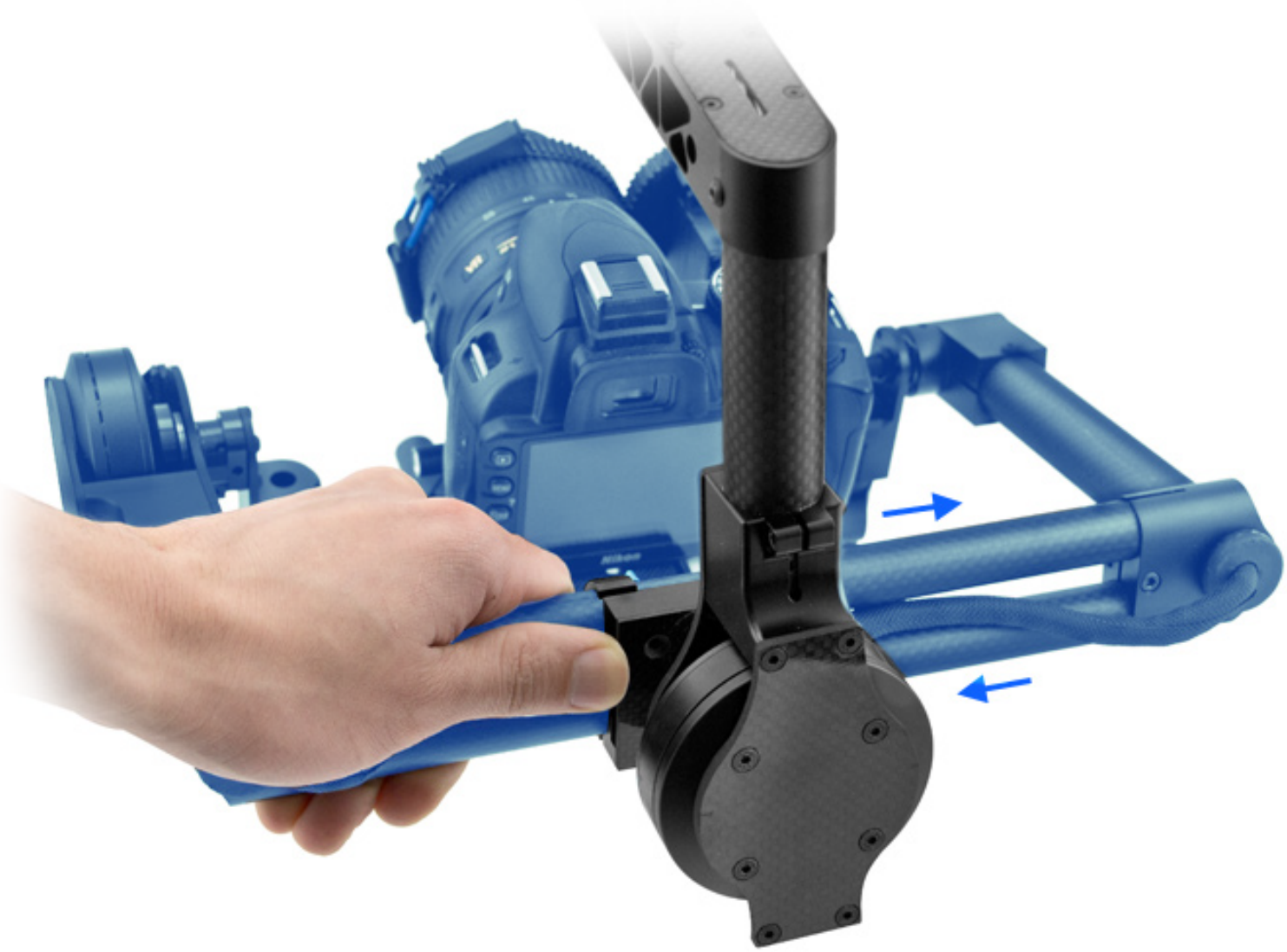
* The gimbal will level itself back when you push the camera slightly forward with your hand if the CG is set properly.

Use the hex key to loosen the vertical adjustment mount.

You can adjust the vertical position of the camera with it.

Loosen the horizontal adjustment knob for adjusting the CG of the gimbal with the camera.

Please adjust the vertical position of the camera concurrently for making sure the camera is located at its CG position.



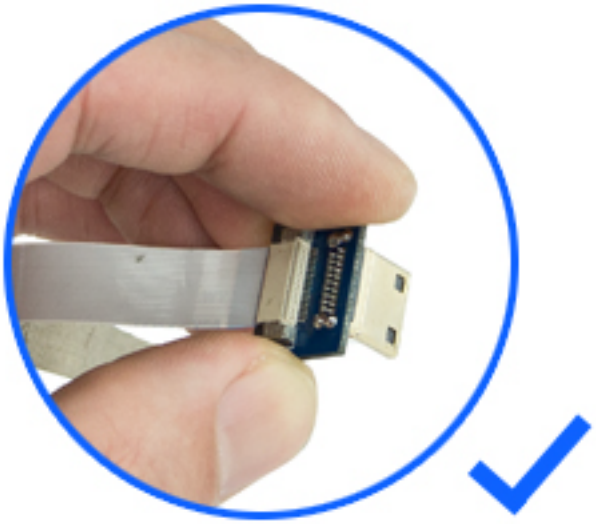
Loosen 4 screws below the yaw motor arm with hex key, hold the arm and adjust it to CG position.

*If the CG is set properly, the gimbal will balance perfectly when you lean the X3 backward as illustrated.

Accessory installation instruction

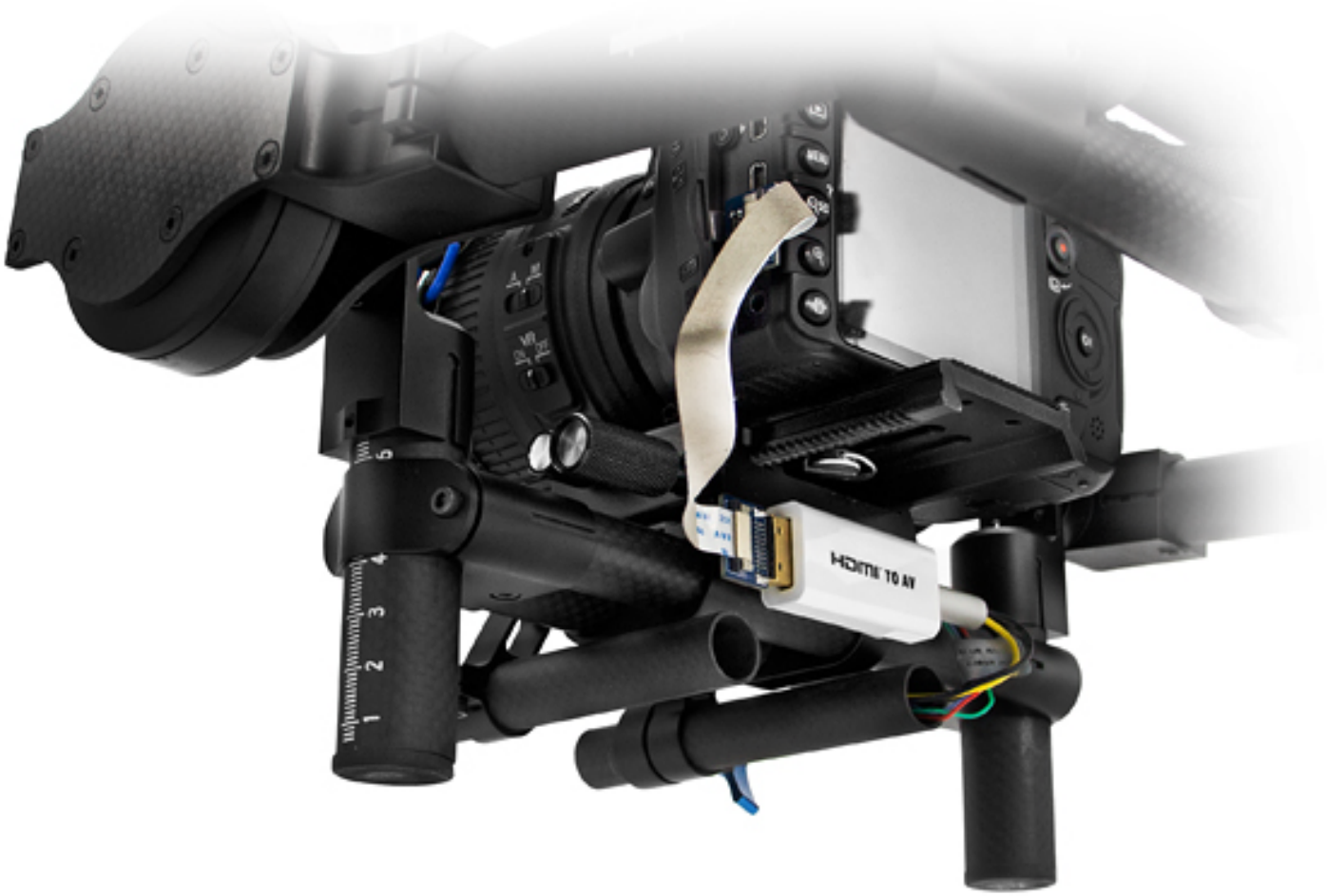
(A)

Please hold the connector head instead of the cable when inserting it to the socket.



(B)
Open the socket cover of your camera and insert the HDMI Cable.

(C)
Insert the other side of the HDMI cable to the HDMI/AV converter.



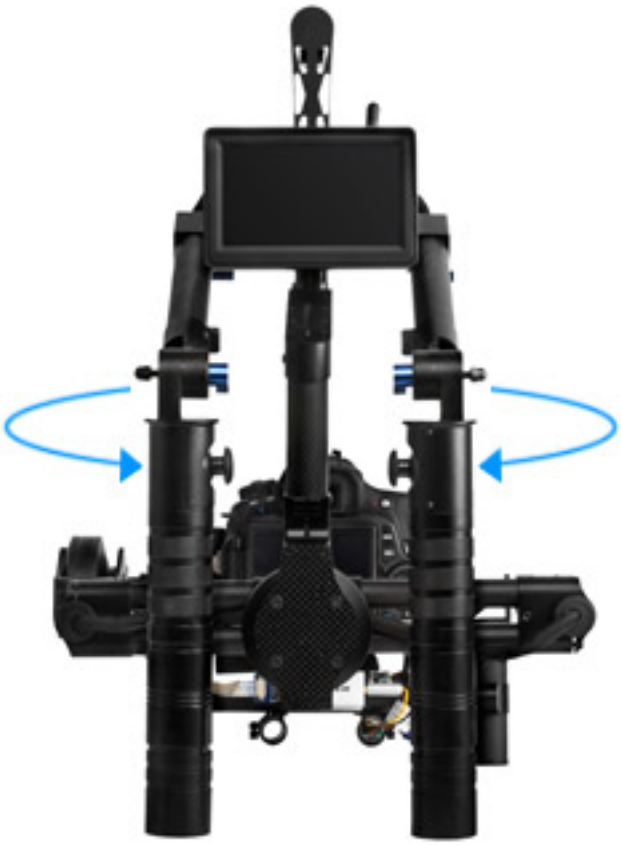
Installation completed

Assembly Instructions

Operation Mode 1
Central Mode, the gimbal is at the central position for easy shooting and control.

Operation Mode 2
Upright Mode, the gimbal is above the grip and control panel for shooting some vertical-align scenes.

3



Operation Mode 3

Folding Mode, fold the arms for wider shooting angle.

*Loosen the top folding arm buckles, fold the arms backward as illustrated then tighten the buckles.

Control Modes Instructions

Mode 1 : Hanging Mode (press 2 times)

Follow pan movements
Pan, Pitch controllable by Joystick
Controllable by transmitter at the same time
Follow/Focus controllable

Mode 2 : Follow “Upright” Mode (press 2 times)

Follow Pan and Pitch axis movements.
Pan Tilt controllable by Joystick
Controllable by transmitter at the same time
Follow/Focus controllable

Mode 3 : Lock Mode (press 3 times)

3-Axis Auto balancing
Pan, Pitch controllable by Joystick
Controllable by transmitter at the same time
Follow/Focus controllable

Remote Controller Instructions

1) Contrl Mode Switch

*Up : Mode 1, Down : Mode3

2) Radio Antenna

3) Sun Shield

4) Video Antenna

5) Follow Focus Control Stick

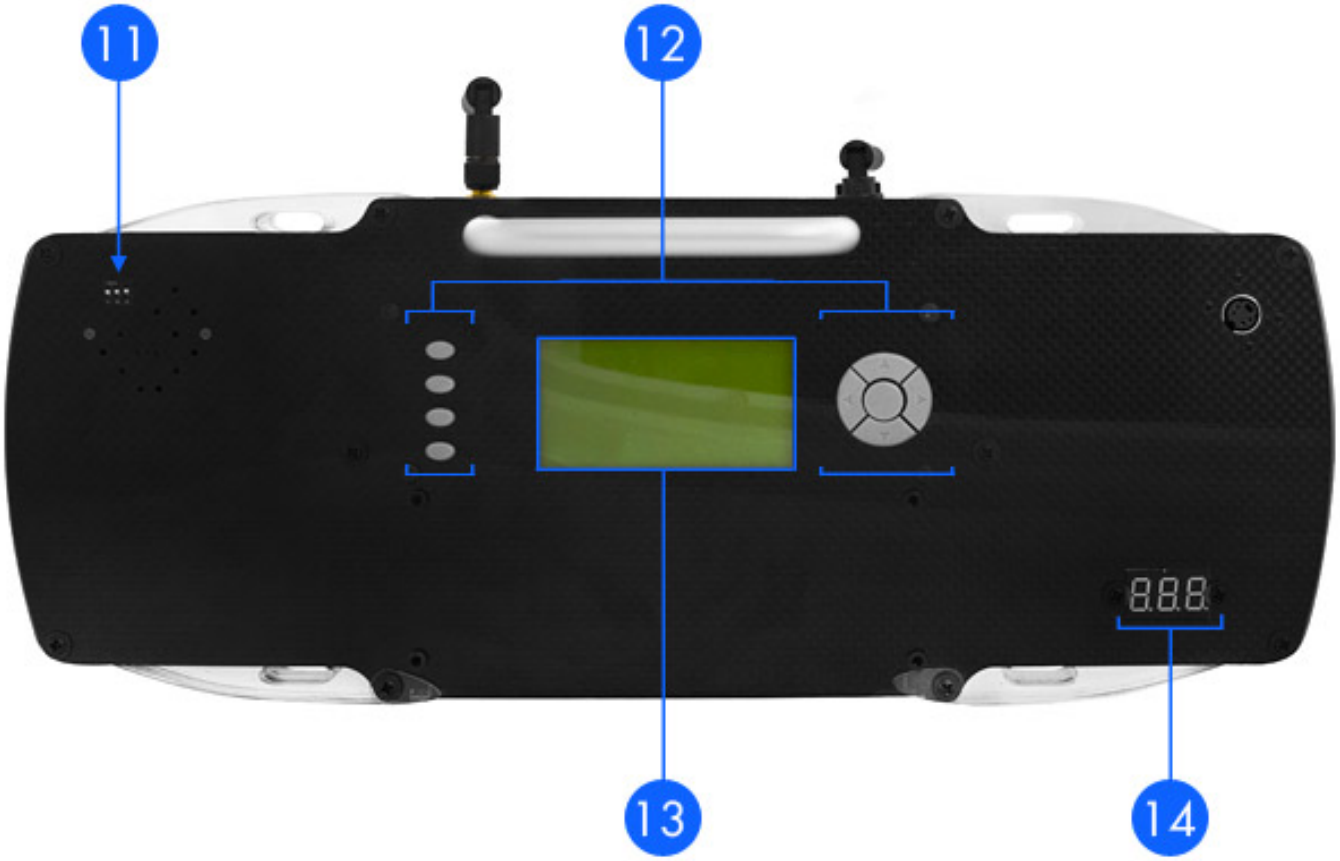
6) Direction Control Stick

7) Monitor Power Switch

8) Monitor Setting Button

9) 7 Inch LCD monitor

10) Main Power Switch

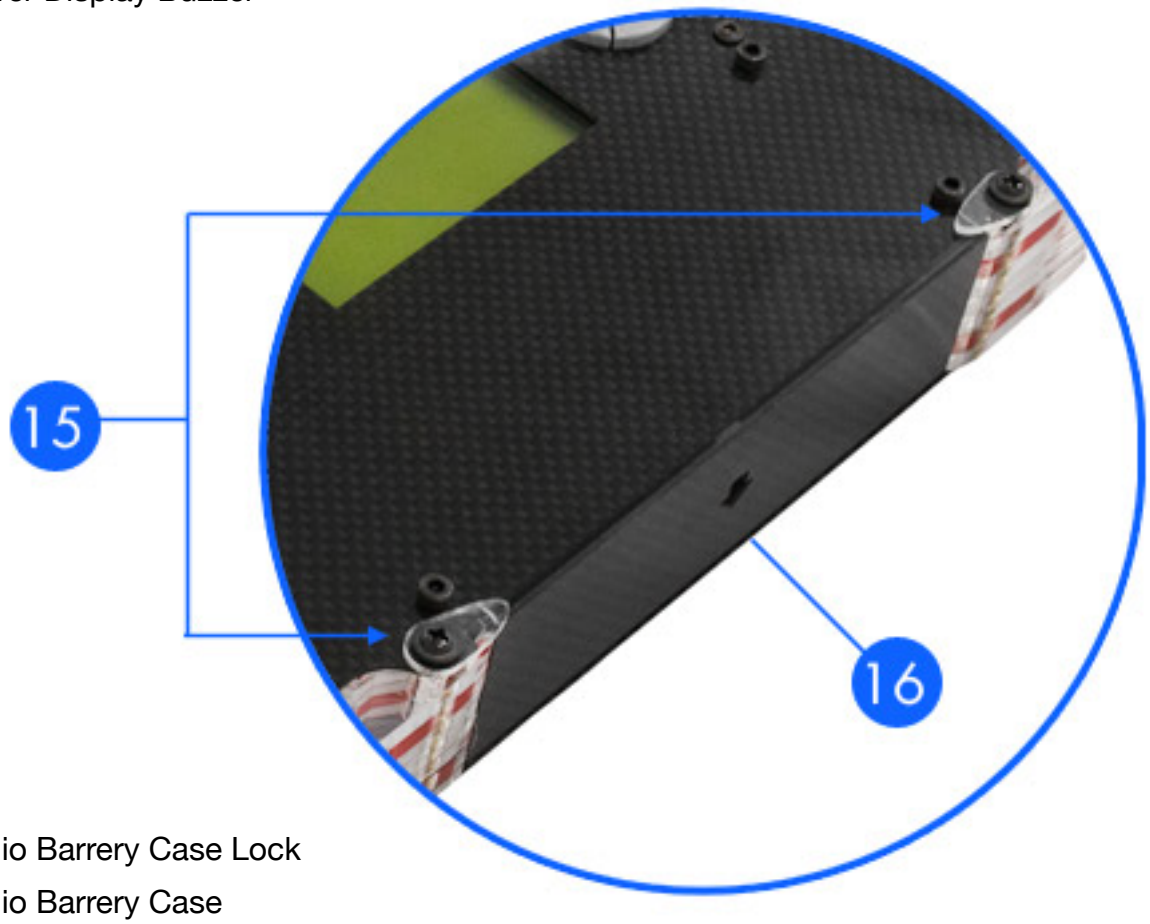


11) Video Receiver Channel Switch

12) Radio Setting Buttons

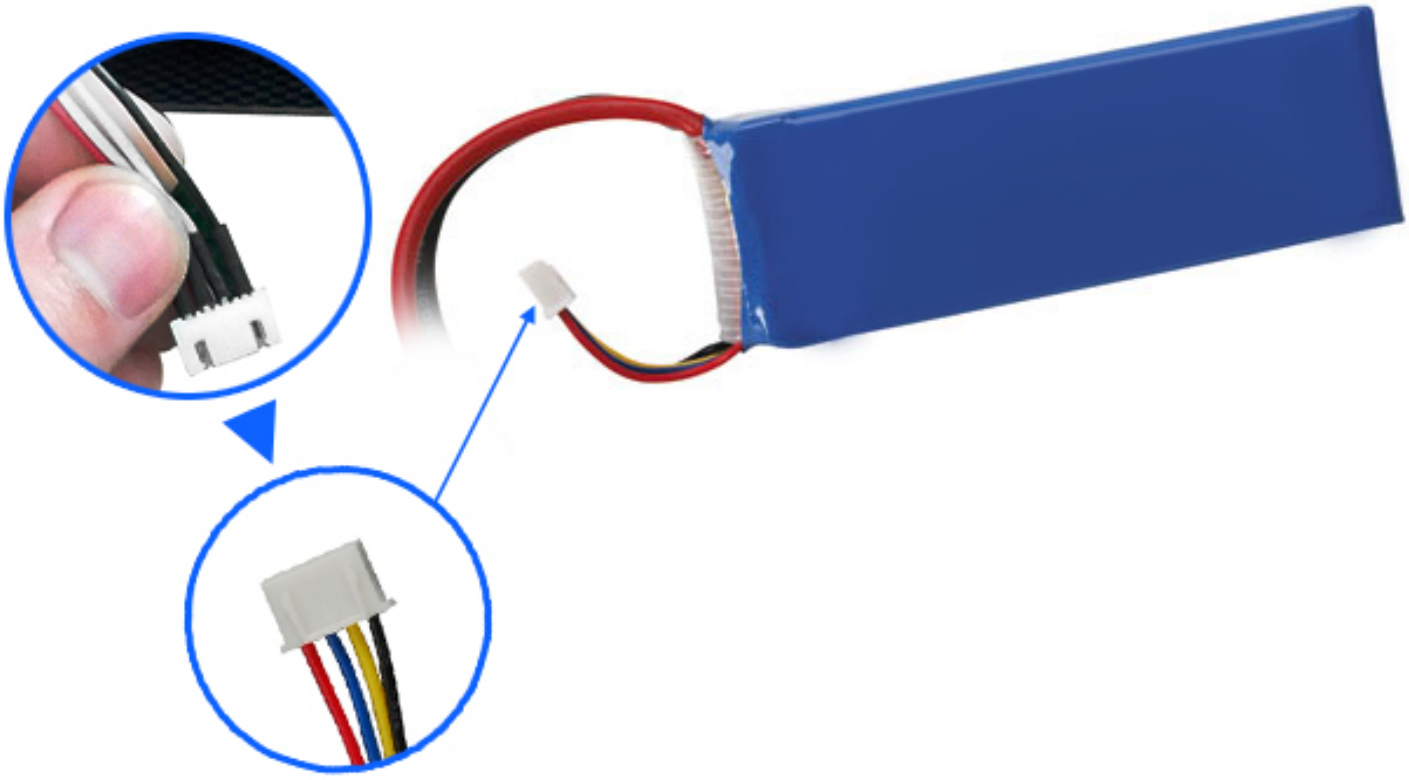
13) Radio Setting Display

14) Power Display Buzzer



15) Radio Barrery Case Lock

16) Radio Barrery Case

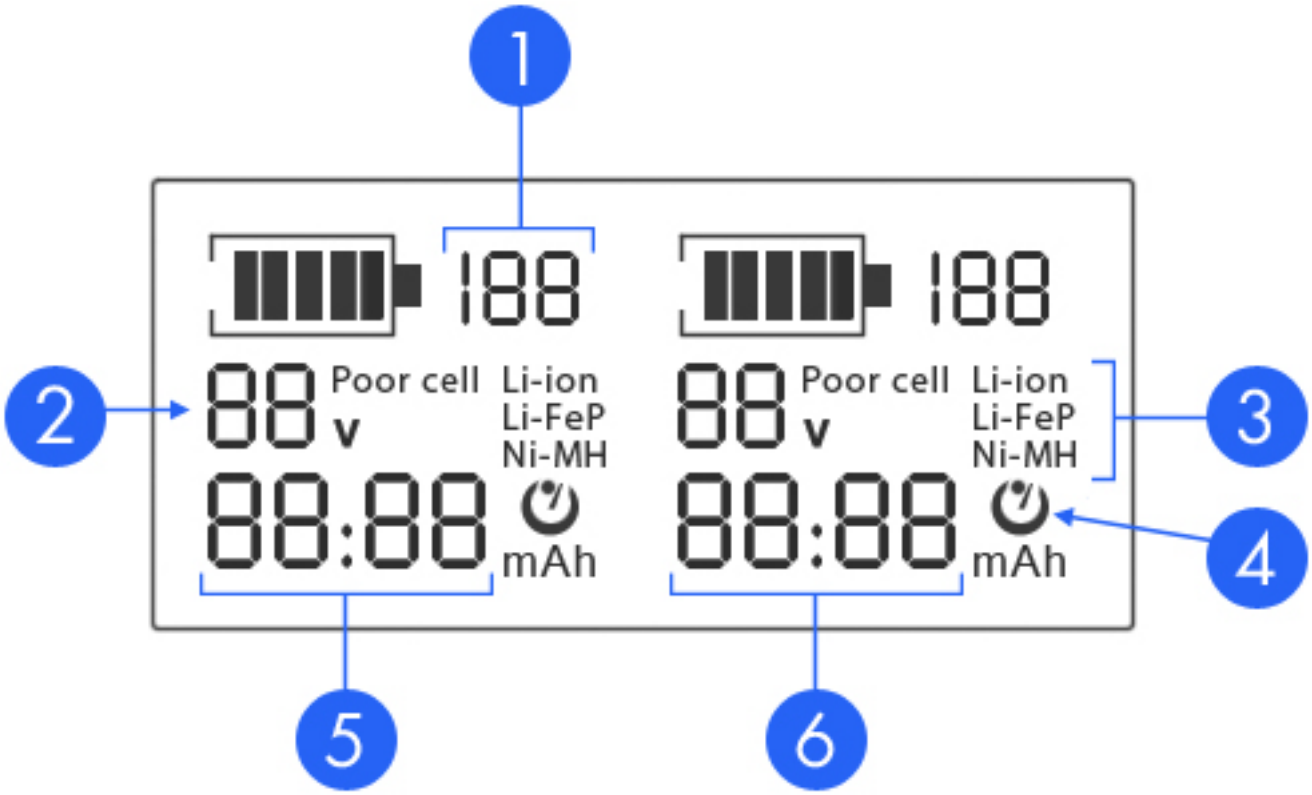


Battery Installation Instruction

Prepare a 3S 11.1V Lipo (1800~2200mAh) battery, unlock the battery case lock. Open the battery case, then connect the balance port of the battery to the battery port inside the battery case.

*Note: All the other buttons, switches or sockets not mentioned in the manual are for factory maintenance, please DO NOT set them.Factory maintenance buttons, if you mistakenly press it, just leave it for about 5 seconds, then it will return to normal mode.

Charger LCD Display Instruction



1) Charging and percentage indication
2) Battery voltage indication
3) Worse Battery alert indication
4) Clock
5) Hour & Minute
6) Charging Capacity indication

88 v	Battery voltage indication
88:88	Charging Time indication
88:88 mAh	Charging Capacity indication
POOR CELL	Worse Battery alert indication Li-ion – Li-ion Battery Li-FeP – Li-FePO4 Battery Ni-MH – Ni-MH Battery Battery type indication

Features

Press the button select LiFePO4 or NiMH/Li-ion batteries
Automatic 3.7V/1.2V battery cell voltage and polarity detection
Mix charge the battery, Reverse protection, Precision end-of-charge voltage detection
Over Charging timeout protection
Auto active function for Lithium battery cell open (0 Voltage)

LCD displays for multi-information, battery type ,voltage ,time ,charging percentage ,charging capacity ,worse battery and bad battery
Auto alert indication for worse battery cell and bad battery cell

Charge methods

1. Ni-MH battary or Li-ion battery, put in the battery, automatic identification and automatic charging.
2. LiFePO4 battery or Li-ion battery, before charging press the start button, the LCD display shows LiFeP, charger into LiFePO4 mode, put in the battery and charge.

Specifications

DC IN : 5V 2000mA / 12V 1000mA /6V 10W (Photovoltaic solar panel)
Output :
1000mA*2@ Li-ion 3.7V Battery
1000mA*2@ Ni-MH 1.2V Battery
1000mA*2@ LiFePO4 3.2V Battery

Charger mode : CC / CV (Li-ion Battery/LiFePO4 Battery)/ DELTA V (Ni-MH Battery)

Conditions	LCD condition
Power on	LCD display show “Stby”
Charging battary	Icon and levels running light up
Bad batery	Show ”FAIL”, “POOR CELL”, @ Li-ion LiFePO4

Conditions	Ni-MH Charging time	Li-ion Charging time	Li-FePO4 Charging time
600mAh	~45min	~45min	~45min
1000mAh	~72min	~72min	~72min
1800mAh	~110min	~110min	~110min
2200mAh	~160min	~160min	~160min
Ni-MH 250mAh	~60min	~60min	
Li-ion 600mAh		~100min	

Maximum charging time : 99 hour 59 minute
Maximum charging capacity : 9999mAh

Battery Capacity Indicator Instruction

You can check how much battery capacity is left by observing the color of the LED of the indicator.

Yellow: Fully Charged

Orange: Satisfactory

Red: Low

The LED lights will be turned off if the remaining battery power is exhausted.